

# CALIFORNIA SALMONID STREAM HABITAT RESTORATION MANUAL

## APPENDIX F

**STATE AND FEDERAL ENDANGERED AND THREATENED SPECIES  
ASSOCIATED WITH SALMONID HABITAT**

This is a list of the animals found within California or off the coast of the state that have been classified as Endangered or Threatened by the California Fish and Game Commission (state list) or by the U. S. Secretary of the Interior or the U. S. Secretary of Commerce (federal list).

The official California listing of Endangered and Threatened animals is contained in the California Code of Regulations, Title 14, Section 670.5. The official federal listing of Endangered and Threatened animals is published in the Federal Register, 50 CFR 17.11.

Animals that are candidates for state listing and animals proposed for federal listing are also included on this list. A state candidate species is one the Fish and Game Commission has formally noticed as being under review by the Department for addition to the state list. A federal proposed species is one for which a proposed regulation has been published in the Federal Register.

**Code Designation:** **Totals as of October 2001**

SE	= State-listed Endangered .....	47
ST	= State-listed Threatened.....	30
FE	= Federally listed Endangered .....	77
FT	= Federally listed Threatened.....	40
SCE	= State candidate (Endangered).....	1
SCT	= State candidate (Threatened) .....	0
FPE	= Federally proposed (Endangered).....	3
FPT	= Federally proposed (Threatened) .....	1
FPD	= Federally proposed (Delisting).....	2
DE	= Delisted.....	1

Common and scientific names are shown as they appear on the state or federal lists. If the nomenclature differs for a species that is included on both lists, the state nomenclature is given and the federal nomenclature is shown in a footnote. Synonyms, names changes, and other clarifying points are also footnoted.

Critical Habitat is defined in Section 3 of the federal Endangered Species Act as specific areas, both occupied and unoccupied, that is essential to the conservation of a listed species and that may require special management considerations or protection.

Recovery Plans are discussed in Section 4 of the federal Endangered Species Act. Each plan incorporates site-specific management actions necessary for the conservation and survival of the species.

The “List Date” for final federal listing and final Critical Habitat designation (Desig.) is the date the listing or designation becomes effective, this is usually not the date of publication of the rule in the Federal Register, it is usually 30 days after publication.

#### **Codes designation for Critical Habitat and Recovery Plans:**

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F= Final  
P= Proposed  
R= Revised

Changes to this update of the list are denoted by \*

	Listing Status			Critical Habitat	Recovery Plan			
	State	List Date	Federal	List Date	Designation	Date	Version	Date
<b>GASTROPODS</b>								
Trinity bristle snail ( <i>Monadenia setosa</i> )	ST <sup>1</sup>	10-02-80						
Morro shoulderband (= banded dune) snail ( <i>Helminthoglypta</i> <i>walkeriana</i> )			FE	1-17-95	F	3-9-01	F	1998
White abalone ( <i>Haliotis sorenseni</i> )			FE	6-28-01				
<b>CRUSTACEANS</b>								
Riverside fairy shrimp ( <i>Streptocephalus</i> <i>woottoni</i> )			FE	8-3-93	F	6-29-01	F	1998
Conservancy fairy shrimp ( <i>Branchinecta</i> <i>conservatio</i> )			FE	9-19-94				
Longhorn fairy shrimp ( <i>Branchinecta</i> <i>longiantenna</i> )			FE	9-19-94				
Vernal pool fairy shrimp ( <i>Branchinecta lynchi</i> )			FT	9-19-94				
San Diego fairy shrimp ( <i>Branchinecta</i> <i>sandiegoensis</i> )			FE	2-3-97	F	10-23-00	F	1998
Vernal pool tadpole shrimp ( <i>Lepidurus packardi</i> )			FE	9-19-94				

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<sup>1</sup> On January 1, 1985, all species designated as "rare" were reclassified as "threatened", as stipulated by the California Endangered Species Act.

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	Listing Status			List Date	Designation	Critical Habitat	Recovery Plan	
	State	List Date	Federal				Date	Version
Shasta crayfish <sup>2</sup> <i>(Pacifastacus fortis)</i>	SE ST	2-26-88 10-2-80	FE	9-30-88			F	1998
California freshwater shrimp <i>(Syncaris pacifica)</i>	SE	10-2-80	FE	10-31-88			F	1998
<b><u>INSECTS</u></b>								
Zayante band-winged grasshopper <i>(Trimerotropis infantilis)</i>			FE	2-24-97	F	3-9-01	F	1998
Mount Hermon June beetle <i>(Polyphylla barbata)</i>			FE	2-24-97			F	1998
Delta green ground beetle <i>(Elaphrus viridis)</i>			FT	8-8-80	F	8-8-80	F	1985
Valley elderberry longhorn beetle <i>(Desmocerus californicus dimorphus)</i>			FT	8-8-80	F	8-8-80	F	1984
Ohlone tiger beetle <i>(Cicindela ohlone)</i>			FE	10-3-01				
Kern primrose sphinx moth <i>(Euproserpinus euterpe)</i>			FT	4-8-80	P	7-3-78		
Mission blue butterfly <i>(Icaricia icarioides missionensis)</i>			FE	6-1-76	P	2-8-77	F	1984
Lotis blue butterfly <i>(Lycaeides argyrogynomon lotis)</i>			FE	6-1-76	P	2-8-77	F	1985
Palos Verdes blue butterfly <i>(Glauopsyche lygdamus palosverdesensis)</i>			FE	7-2-80	F	7-2-80	F	1984

<sup>2</sup> Federal: Shasta (=placid) crayfish

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State	List Date	Federal	List Date	Designation	Critical	Recovery
					Habitat	Plan
					Date	Version
El Segundo blue butterfly <i>(Euphilotes battoides allynii)</i>		FE	6-1-76	P	2-8-77	F 1998
Smith's blue butterfly <i>(Euphilotes enoptes smithi)</i>		FE	6-1-76	P	2-8-77	F 1984
San Bruno elfin butterfly <i>(Incisalia mossii bayensis</i> <sup>3</sup> )		FE	6-1-76	P	2-8-77	F 1984
Lange's metalmark butterfly <i>(Apodemia mormo langei)</i>		FE	6-1-76	P	2-8-77	R 1984
Bay checkerspot butterfly <i>(Euphydryas editha bayensis)</i>		FT	10-18-87	P	10-16-00	F 1998
Quino checkerspot <i>(Euphydryas editha quino)</i>		FE	1-16-97	P	2-7-01	
Laguna Mountains skipper <i>(Pyrgus ruralis lagunae)</i>		FE	1-16-97			
Callippe silverspot butterfly <i>(Speyeria callippe callippe)</i>		FE	12-5-97	P	3-28-80	
Behren's silverspot butterfly <i>(Speyeria zerene behrensi)</i>		FE	12-5-97			
Oregon silverspot butterfly <i>(Speyeria zerene hippolyta)</i>		FT	7-2-80	F	7-2-80	

<sup>3</sup> Federal: *Callophrysmossi bayensis*

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Myrtle's silverspot butterfly <i>(Speyeria zerene myrtleae)</i>		FE	6-22-92				F	1998	
Delhi Sands flower-loving fly <i>(Rhaphiomidas terminatus abdominalis)</i>		FE	9-23-93				F	1997	
<b><u>FISHES</u></b>									
Winter-run chinook salmon <sup>4</sup> <i>(Oncorhynchus tshawytscha)</i>	SE	9-22-89	FE	2-3-94	F	3-23-99			
Chinook salmon-California coastal ESU <sup>5</sup> <i>(Oncorhynchus tshawytscha)</i>			FT <sup>6</sup>	11-15-99	F	2-16-00			
Spring-run chinook salmon <i>(Oncorhynchus tshawytscha)</i>	ST	2-5-99	FT <sup>7</sup>	11-15-99	F	2-16-00			
Coho salmon-Central Calif Coast ESU <i>(Oncorhynchus kisutch)</i>	SE <sup>8</sup> SE <sup>9</sup>	12-31-95 8-30-02	FT <sup>10</sup>	12-2-96					

<sup>4</sup> Federal: Sacramento River winter run chinook salmon

<sup>5</sup> ESU= Evolutionarily Significant Unit

<sup>6</sup> Naturally spawned coastal spring & fall Chinook salmon between Redwood Creek in Humboldt Co. & the Russian River in Sonoma Co.

<sup>7</sup> Federal: Central Valley Spring-Run ESU. Includes populations spawning in the Sacramento River & its tributaries

<sup>8</sup> The state listing is limited to coho south of San Francisco Bay.

<sup>9</sup> The state endangered listing includes populations south of Punta Gorda.

<sup>10</sup> The federal listing is limited to naturally spawning populations in streams between Punta Gorda, Humboldt Co. & the San Lorenzo River, Santa Cruz Co.

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<b>Listing Status</b>	<b>Critical Habitat</b>	<b>Recovery Plan</b>					
<b>State</b>	<b>List Date</b>	<b>Federal</b>	<b>List Date</b>	<b>Designation</b>	<b>Date</b>	<b>Version</b>	<b>Date</b>
Coho salmon-So. Oregon/No. Calif ESU <sup>11</sup> <i>(Oncorhynchus kisutch)</i>	ST <sup>12</sup>	8-30-02	FT	6-5-97	F	3-17-00	
Little Kern golden trout <i>(Oncorhynchus mykiss whitei<sup>13</sup>)</i>			FT	4-13-78	F	4-13-78	
Lahontan cutthroat trout <i>(Oncorhynchus clarki henshawi)<sup>14</sup></i>			FT	7-16-75	F	1995	
Paiute cutthroat trout <i>(Oncorhynchus clarki seleniris)<sup>15</sup></i>			FT	7-16-75			
			FE	3-11-67			
Steelhead-Northern California ESU <sup>16</sup> <i>(Oncorhynchus mykiss)</i>			FT	8-7-00			
Steelhead-Central California Coast ESU <sup>17</sup> <i>(Oncorhynchus mykiss)</i>			FT	10-17-97	F	3-17-00	
Steelhead- South/Central California Coast ESU <sup>18</sup> <i>(Oncorhynchus mykiss)</i>			FT	10-17-97	F	3-17-00	

<sup>11</sup> Populations between Cape Blanco, Oregon & Punta Gorda, California.

<sup>12</sup> The federal listing includes populations between Cape Blanco Oregon, & Punta Gorda. The state threatened listing includes populations north of Punta Gorda.

<sup>13</sup> Federal: *Oncorhynchus (=Salmon) aguabonita whitei*

<sup>14</sup> Federal: *Oncorhynchus (=Salmo) clarki henshawi*

<sup>15</sup> Federal: *Oncorhynchus (=Salmo)clarki seleniris*

<sup>16</sup> Naturally spawned populations residing below impassable barriers in coastal basins from Redwood Creek in Humboldt Co. to, and including, the Gualala River in Mendocino Co.

<sup>17</sup> Coastal basins from the Russian River, south to Soquel Creek, inclusive. Includes the San Francisco & San Pablo Bay basins, but excludes the Sacramento-San Joaquin River basins.

<sup>18</sup> Coastal basins from the Pajaro River south to, but not including, the Santa Maria River.

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Steelhead-Southern California ESU <sup>19</sup> <i>(Oncorhynchus mykiss)</i>			FT	10-17-97	F	3-17-00	
Steelhead-Central Valley ESU <sup>20</sup> <i>(Oncorhynchus mykiss)</i>			FT	5-18-98	F	3-17-00	
Bull trout <i>(Salvelinus confluentus)</i>	SE	10-2-80	FT	12-1-99			
Delta smelt <i>(Hypomesus transpacificus)</i>	ST	12-9-93	FT	3-5-93	F	12-19-94	F 1996
Mohave tui chub <i>(Gila bicolor mohavensis)</i>	SE	6-27-71	FE	10-13-70			F 1984
Owens tui chub <i>(Gila bicolor snyderi)</i>	SE	1-10-74	FE	8-5-85	F	8-5-85	F 1998
Cowhead Lake tui chub <i>(Gila bicolor vaccaceps)</i>			FPE	3-30-98			
Bonytail <sup>21</sup> <i>(Gila elegans)</i>	SE SR	1-10-74 6-27-71	FE	4-23-80	F	3-21-94	R 1990
Sacramento splittail <i>(Pogonichthys macrolepidotus)</i>			FT	3-10-99			F 1996
Colorado squawfish <sup>22</sup> <i>(Ptychocheilus lucius)</i>	SE	6-27-71	FE	3-11-67	F	3-21-94	R 1991
Lost River sucker <i>(Deltistes luxatus)</i>	SE SR	1-10-74 6-27-71	FE	7-18-88	P	12-1-94	F 1993
Modoc sucker <i>(Catostomus microps)</i>	SE SR	10-2-80 1-10-74	FE	6-11-85	F	6-11-85	

<sup>19</sup> Coastal basins from the Santa Maria River, south to the southern extent of the range (presently considered to be Malibu Creek. Proposed rulemaking 12-19-2000 to extend to southern portion of the range to San Mateo Creek in San Diego Co.).

<sup>20</sup> The Sacramento and San Joaquin Rivers and their tributaries.

<sup>21</sup> Federal: Bonytail chub

<sup>22</sup> Current nomenclature and federal listing: Colorado pikeminnow

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Santa Ana sucker ( <i>Catostomus santaanae</i> )			FT	5-12-00				
Shortnose sucker ( <i>Chasmistes brevirostris</i> )	SE SR	1-10-74 6-27-71	FE	7-18-8	P	12-1-94	F	1993
Razorback sucker ( <i>Xyrauchen texanus</i> )	SE SR	1-10-74 6-27-71	FE	10-23-91	F	3-21-94		
Desert pupfish ( <i>Cyprinodon macularius</i> )	SE	10-2-80	FE	3-31-86	F	3-31-86	F	1993
Cottonball Marsh pupfish ( <i>Cyprinodon salinus milleri</i> )	ST	1-10-74						
Owens pupfish ( <i>Cyprinodon radiosus</i> )	SE	6-27-71	FE	3-11-67			F	1998
Unarmored threespine stickleback ( <i>Gasterosteus aculeatus williamsoni</i> )	SE	6-27-71	FE	10-13-70	P	11-17-80	F	1985
Tidewater goby ( <i>Eucyclogobius newberryi</i> )			FPD <sup>23</sup> FE	6-24-99 2-4-94	F	11-20-00		
Rough sculpin ( <i>Cottus asperimus</i> )	ST	1-10-74						

**AMPHIBIANS**

Calif. tiger salamander - Santa Barbara Co. DPS <sup>24</sup> ( <i>Ambystoma californiense</i> )	FE <sup>25</sup>	9-15-00
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<sup>23</sup> Proposal to delist refers to populations north of Orange County only.

<sup>24</sup> DPS= Distinct Vertebrate Population Segment

<sup>25</sup> Federal listing refers to the Santa Barbara County DPS only.

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	Listing Status			List Date	Designation	Critical Habitat	Recovery Plan	
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Santa Cruz long-toed salamander <i>(Ambystoma macrodactylum croceum)</i>	SE	6-27-71	FE	3-11-67	P	6-22-78	D	1999
Siskiyou Mountains salamander <i>(Plethodon stormi)</i>	ST	6-27-71						
Tehachapi slender salamander <i>(Batrachoseps stebbinsi)</i>	ST	6-27-71						
Kern Canyon slender salamander <i>(Batrachoseps simatus)</i>	ST	6-27-71						
Desert slender salamander <i>(Batrachoseps aridus)<sup>26</sup></i>	SE	6-27-71	FE	6-4-73			F	1982
Shasta salamander <i>(Hydromantes shastae)</i>	ST	6-27-71						
Limestone salamander <i>(Hydromantes brunus)</i>	ST	6-27-71						
Black toad <i>(Bufo exsul)</i>	ST	6-27-71						
Arroyo toad <sup>27</sup> <i>(Bufo californicus)</i>			FE	1-17-95	F	3-9-01	F	1999
California red-legged frog <i>(Rana aurora draytonii)</i>			FT <sup>28</sup>	5-20-96	F	4-12-01	D	2000

<sup>26</sup> Current taxonomy: *Batrachoseps major aridus*

<sup>27</sup> Former taxonomy: *Bufo microscaphus californicus*

<sup>28</sup> Federal listing does not include Humboldt, Trinity, and Mendocino Counties; Glenn, Lake & Sonoma Counties west of the Central Valley hydrologic Basin; Sonoma Creek & Petaluma River drainages which flow into San Francisco Bay, & north of the Walker Creek drainage which flows to the Pacific Ocean

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State	Listing Status			Designation	Critical Habitat	Recovery Plan	
	List Date	Federal	List Date			Date	Version
Mountain yellow-legged frog - So. Calif. Pop. <sup>29</sup> <i>(Rana muscosa)</i>		FPE	12-28-99				
<b>REPTILES</b>							
Desert tortoise <i>(Gopherus agassizii)</i>	ST	8-3-89	FT	4-2-90	F	2-8-94	F 1994
Green sea turtle <i>(Chelonia mydas)</i>			FT	7-28-78	F	3-23-99	R 1998
Loggerhead sea turtle <i>(Caretta caretta)</i>			FE	10-13-70			
Olive (=Pacific)			FT	7-28-78	P	3-19-80	R 1998
Ridley sea turtle <i>(Lepidochelys olivacea)</i>			FT	7-28-78	P	3-19-80	R 1998
Leatherback sea turtle <i>(Dermochelys coriacea)</i>			FE	6-2-70	F	3-23-99	R 1998
Barefoot banded gecko <sup>30</sup> <i>(Coleonyx switaki)</i>	ST	10-2-80					
Coachella Valley fringe-toed lizard <i>(Uma inornata)</i>	SE	10-2-80	FT	9-25-80	F	9-25-80	F 1984
Blunt-nosed leopard lizard <i>(Gambelia silus)<sup>31</sup></i>	SE	6-27-71	FT	3-11-67			F 1998
Island night lizard <i>(Xantusia riversiana)</i>			FT	8-11-67			F 1984
Southern rubber boa <i>(Charina bottae umbratica)</i>	ST	6-27-71					
Alameda whipsnake <i>(Masticophis lateralis euryxanthus)</i>	ST	6-27-71	FT	12-5-97	F	10-3-00	
San Francisco garter snake <i>(Thamnophis sirtalis tetrataenia)</i>	SE	6-27-71	FE	3-11-67			F 1985

<sup>29</sup> Federal listing proposal refers to populations in the San Gabriel, San Jacinto & San Bernardino Mountains only.

<sup>30</sup> Current nomenclature: Barefoot gecko

<sup>31</sup> Current taxonomy: *Gambelia sila*

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Giant garter snake ( <i>Thamnophis couchi gigas</i> ) <sup>32</sup>	ST	6-27-71	FT	10-20-93			D	1999
<b>BIRDS</b>								
Short-tailed albatross ( <i>Phoebastria albatrus</i> )			FE	8-30-00				
California brown pelican <sup>33</sup> ( <i>Pelecanus occidentalis californicus</i> )	SE	6-27-71	FE	10-13-70			F	1983
California condor ( <i>Gymnogyps californianus</i> )	SE	6-27-71	FE	3-11-67	F	9-22-77	R	1996
Bald eagle ( <i>Haliaeetus leucocephalus</i> )	SE	10-2-80	FPD	7-6-99				
	(rev)		FT	8-11-95				
	SE	6-27-71	FE	2-14-78				
			(rev)					
			FE	3-11-67				
Swainson's hawk ( <i>Buteo swainsoni</i> )	ST	4-17-83						
American peregrine falcon ( <i>Falco peregrinus anatum</i> )	SE	6-27-71	DE	8-25-99	F	9-22-77	F	1982
California black rail ( <i>Laterallus jamaicensis coturniculus</i> )	ST	6-27-71	FE	10-13-70				
California clapper rail ( <i>Rallus longirostris obsoletus</i> )	SE	6-27-71	FE	10-13-70			F	1984
Light-footed clapper rail ( <i>Rallus longirostris levipes</i> )	SE	6-27-71	FE	10-13-70			F	1979

<sup>32</sup> Current taxonomy and federal listing: *Thamnophis gigas*

<sup>33</sup> Federal: Brown pelican, *Pelecanus occidentalis*

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Yuma clapper rail ( <i>Rallus longirostris yumanensis</i> )	ST SE	2-22-78 6-27-71	FE	3-11-67			F	1983
Greater sandhill crane ( <i>Grus canadensis tabida</i> )	ST	4-17-83						
Western snowy plover <sup>34</sup> ( <i>Charadrius alexandrinus nivosus</i> )			FT	4-5-93	F	12-7-99		
Mountain plover ( <i>Charadrius montanus</i> )			FPT	2-16-99				
California least tern ( <i>Sterna antillarum browni</i> )	SE	6-27-71	FE	10-13-70			F	1980
Marbled murrelet ( <i>Brachyramphus marmoratus</i> ) <sup>35</sup>	SE	3-12-92	FT	9-30-92	F	5-24-96	F	1997
Western yellow-billed cuckoo ( <i>Coccyzus americanus occidentalis</i> )	SE ST	3-26-88 6-27-71						
Elf owl ( <i>Micrathene whitneyi</i> )	SE	10-2-80						
Northern spotted owl ( <i>Strix occidentalis caurina</i> )			FT	6-22-90	F	1-15-92		
Great gray owl ( <i>Strix nebulosa</i> )	SE	10-2-80						
Gila woodpecker ( <i>Melanerpes uropygialis</i> )	SE	3-17-88						
Gilded northern flicker <sup>36</sup> ( <i>Colaptes auratus chrysoides</i> )	SE	3-17-88						

<sup>34</sup> Federal status applies only to the Pacific coastal population.

<sup>35</sup> Federal: *Brachyramphus marmoratus marmoratus*

<sup>36</sup> Current taxonomy: Gilded flicker (*Colaptes chrysoides*)

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Willow flycatcher <i>(Empidonax traillii)</i>	SE <sup>37</sup>		1-2-91				
Southwestern willow flycatcher <i>(Empidonax traillii extimus)</i>		FE		3-29-95	F	7-22-97	D 2001
Bank swallow <i>(Riparia riparia)</i>	ST	6-11-89					
Coastal California gnatcatcher <i>(Polioptila californica californica)</i>			FT	3-30-93	F	10-24-00	
San Clemente loggerhead shrike <i>(Lanius ludovicianus mearnsi)</i>			FE	8-11-77			F 1984
Arizona Bell's vireo <i>(Vireo bellii arizonae)</i>	SE	3-17-88					
Least Bell's vireo <i>(Vireo bellii pusillus)</i>	SE	10-2-80	FE	5-2-86	F	2-2-94	D 1998
Inyo California towhee <sup>38</sup> <i>(Pipilo crissalis eremophilus)</i>	SE	10-2-80	FT	8-3-87	F	8-3-87	F 1998
San Clemente sage sparrow <i>(Amphispiza belli clementeae)</i>			FT	8-11-77			F 1984
Belding's savannah sparrow <i>(Passerculus sandwichensis beldingi)</i>	SE	1-10-74					
<b><u>MAMMALS</u></b>							

<sup>37</sup> State listing includes all subspecies

<sup>38</sup> Federal: Inyo California (=brown) towhee

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Species Name	State List Date	Listing Status		List Date	Designation	Critical Habitat Date	Recovery Plan	
		Federal	Date				Version	Date
Buena Vista Lake shrew <i>(Sorex ornatus relictus)</i>			FPE	6-1-00			F	1998
Riparian brush rabbit <i>(Sylvilagus bachmani riparius)</i>	SE 5-29-94	FE	3-24-00				F	1998
Point Arena mountain beaver <i>(Aplodontia rufa nigra)</i>		FE	12-12-91				F	1998
San Joaquin antelope squirrel <i>(Ammospermophilus nelsoni)</i>	ST 10-2-80							
Mohave ground squirrel <i>(Spermophilus mohavensis)</i>	ST 6-27-71							
Pacific pocket mouse <i>(Perognathus longimembris pacificus)</i>		FE	9-26-94				F	1998
Morro Bay kangaroo rat <i>(Dipodomys heermanni morroensis)</i>	SE 6-27-71	FE	10-13-70	F	8-11-77	F	1982	
Giant kangaroo rat <i>(Dipodomys ingens)</i>	SE 10-2-80	FE	1-5-87				F	1998
Stephens' kangaroo rat <i>(Dipodomys stephensi)<sup>39</sup></i>	ST 6-27-71	FE	9-30-88					
San Bernardino kangaroo rat <i>(Dipodomys merriami parvus)</i>		FE	9-24-98	P	12-8-00			

<sup>39</sup> Federal: includes *Dipodomys cactus*

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	Listing Status			Designation	Critical Habitat	Recovery Plan	
	State	List Date	Federal			Date	Version
Tipton kangaroo rat <i>(Dipodomys nigrataoides nigrataoides)</i>	SE	6-11-89	FE	7-8-88		F	1998
Fresno kangaroo rat <i>(Dipodomys nigrataoides exilis)</i>	SE SR	10-2-80 6-27-71	FE	3-1-85	F	1-30-85	F
Salt-marsh harvest mouse <i>(Reithrodontomys raviventris)</i>	SE	6-27-71	FE	10-13-70		F	1984
Amargosa vole <i>(Microtus californicus scirpensis)</i>	SE	10-2-80	FE	11-15-84	F	1-15-84	F
Riparian woodrat <i>(Neotoma fuscipes riparia)</i>			FE	3-24-00			
Sierra Nevada red fox <i>(Vulpes vulpes necator)</i>	ST	10-2-80					
San Joaquin kit fox <i>(Vulpes macrotis mutica)</i>	ST	6-27-71	FE	3-11-67		F	1998
Island fox <i>(Urocyon littoralis)</i>	ST	6-27-71					
Guadalupe fur seal <i>(Arctocephalus townsendi)</i>	ST	6-27-71	FT	12-16-85			
Steller (=northern) sea lion <i>(Eumetopias jubatus)</i>			FT	4-5-90	F	3-23-99	
Wolverine <i>(Gulo gulo)</i>	ST	6-27-71					
Southern sea otter <i>(Enhydra lutris nereis)</i>			FT	1-14-77		F	1981
Sei whale <i>(Balaenoptera borealis)</i>			FE	6-2-70			

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<b>State</b>	<b>Listing Status</b>	<b>Federal</b>	<b>List Date</b>	<b>Critical Habitat</b>	<b>Recovery Plan</b>
				<b>Designation</b>	<b>Date</b>
					<b>Version</b>
Blue whale ( <i>Balaenoptera musculus</i> )		FE	6-2-70		
Finback whale <sup>40</sup> ( <i>Balaenoptera physalus</i> )		FE	6-2-70		
Humpback whale <sup>41</sup> ( <i>Megaptera novaeangliae</i> )		FE	6-2-70		
Right whale <sup>42</sup> ( <i>Balaena glacialis</i> (includes <i>australis</i> ))		FE	6-2-70		
Sperm whale ( <i>Physeter macrocephalus</i> (= <i>catodon</i> ))		FE	6-2-70		
California (=Sierra Nevada) bighorn sheep	SE	8-27-99	FE	1-3-00	
Penninsular bighorn sheep DPS <sup>43</sup> ( <i>Ovis canadensis nelsoni</i> )	ST	6-27-71	FE	3-18-98 F 3-5-01 F 2000	

<sup>40</sup> Also known as Fin whale

<sup>41</sup> Also known as Hump-backed whale

<sup>42</sup> Also known as Black right whale

<sup>43</sup> The subspecies *O.c. cremnobates* has been synonymized with *O.c. nelsoni*. Peninsular bighorn sheep are now considered to be a Distinct Vertebrate Population Segment.

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**PARTIAL LIST OF STATE AND FEDERALLY LISTED PLANTS**

Common Name	Scientific Name	Classification
Ramshaw Meadows Abronia	<i>Abronia alpina</i>	FC
Sonoma Alopecurus	<i>Alopuccurus aequalis</i>	FE
Marsh Sandwort	<i>Arenaria paludicola</i>	SE, FE
Fish Slough Milk-Vetch	<i>Astragalus lentiginosus</i> var. <i>piscinensis</i>	FT
Sodaville Milk-Vetch	<i>Astragalus lentiginosus</i> var. <i>sesquimetalis</i>	SE
Bakersfield Smallscale	<i>Atriplex tularensis</i>	SE
Bensoniella	<i>Bensoniella oregona</i>	SR
Nevin's Barberry	<i>Berberis nevinii</i>	SE, FE
Indian Valley Brodiaea	<i>Brodiaea coronaria</i> ssp. <i>rosea</i>	SE
White Sedge	<i>Carex albida</i>	SE, FE
Ash-Gray Indian Paintbrush	<i>Castilleja cinerea</i>	FT
Pitkin Marsh Indian Paintbrush	<i>Castilleja uligosa</i>	SE
Scott's Valley Spineflower	<i>Chorizanthe robusta</i> var. <i>hartwegii</i>	FE
Fountain Thistle	<i>Cirsium fontinale</i> var. <i>fontinale</i>	SE, FE
Chorro Creek Bog Thistle	<i>Cirsium fontinale</i> var. <i>obispoense</i>	SE, FE
Palmate-Bracted Bird's-Beak	<i>Cordylanthus palmatus</i>	SE, FE
Cuyamaca Larkspur	<i>Delphinium hesperium</i> ssp. <i>cuyamacae</i>	SR
Geysers Dichanthelium	<i>Dichanthelium lanuginosum</i>	SE
Cuyamaca Lake Downingia	<i>Downingia concolor</i> var. <i>brevior</i>	SE
Delta Button-Celery	<i>Eryngium racemosum</i>	SE
Boggs Lake Hedge-Hyssop	<i>Gratiola heterosepala</i>	SE
Ash Meadows Gumplant	<i>Grindelia fraxino-pratensis</i>	FT
Water Howellia	<i>Howellia aquatilis</i>	FT
Burke's Goldfields	<i>Lasthenia burkei</i>	SE, FE
Mason's Lilaeopsis	<i>Lilaeopsis masonii</i>	SR
Western Lily	<i>Lilium occidentale</i>	SE, FE
Pitkin Marsh Lily	<i>Lilium pardalinum</i> ssp. <i>pitkinense</i>	SE, FE
Baker's Meadowfoam	<i>Limnanthes bakeri</i>	SR
Point Reyes Meadowfoam	<i>Limnanthes douglasii</i> ssp. <i>sulphurea</i>	SE
Parish's Meadowfoam	<i>Limnanthes gracilis</i> ssp. <i>parishii</i>	SE
Sebastopol Meadowfoam	<i>Limnanthes vinculans</i>	SE, FE
Father Crowley's Lupine	<i>Lupinus padre-crowleyi</i>	SR
Willowy Monardella	<i>Monardella linoides</i> ssp. <i>viminea</i>	SE, FE
Amargosa Nitrophila	<i>Nitrophila mohavensis</i>	SE, FE
Calistoga Popcorn-Flower	<i>Plagiobothrys strictus</i>	ST, FE
North Coast Semaphore Grass	<i>Pleuropogon hooverianus</i>	SC
San Bernardino Blue Grass	<i>Poa atropurpurea</i>	FE
Napa Blue Grass	<i>Poa napensis</i>	SE, FE
Santa Lucia Mint	<i>Pogogyne clareana</i>	SE
Hickman's Cinquefoil	<i>Potentilla Hickmanii</i>	SE, FE
Gambel's Water Cress	<i>Rorippa gambelii</i>	ST, FE
Tahoe Yellow Cress	<i>Rorippa subumbellata</i>	SE, FC
Adobe Sanicle	<i>Sanicula maritima</i>	SR
Owens Valley Checkerbloom	<i>Sidalcea covillei</i>	SE
Kenwood Marsh Checkerbloom	<i>Sidalcea oregana</i> ssp. <i>valida</i>	SE, FE,
Bird-Foot Checkerbloom	<i>Sidalcea pedata</i>	SE, FE

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## CALIFORNIA SALMONID STREAM HABITAT RESTORATION MANUAL

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Scadden Flat Checkerbloom	<i>Sidalcea stipularis</i>	SE
California Seablite	<i>Suaeda californica</i>	FE
California Dandelion	<i>Taraxacum californicum</i>	FE
Slender-Petaled Thelypodium	<i>Thelypodium stenopetalum</i>	SE, FE
Pacific Grove Clover	<i>Trifolium polydon</i>	SR

The above list of plants includes only those species in the DFG Natural Diversity Data Base in categories relating to selected aquatic and riparian habitats<sup>44</sup>. The statewide species list for state and federal listed plants, species of special concern and federal category species that could be present in areas in or adjacent to fisheries restoration projects is extensive. Many sensitive plant species or communities that are not considered "aquatic" or "riparian" may occur within or near the riparian zones in some watersheds, and upslope control of sediment sources may involve non-riparian habitats. Occurrence of sensitive plant species within a proposed project site should be investigated on a case-by-case basis by personnel trained in botanical surveys, who have knowledge of local plant species. It is recommended that DFG regional plant ecologists be contacted in initial project planning stages for information about the potential of sensitive plant occurrence in or near the project area. In addition, it is recommended that project planners consult the California Native Plant Society's *Inventory of Rare and Endangered Vascular Plants of California*, and the most current version of DFG's *Special Plants List* for specific species status.

Information regarding life history, habits, and distribution for threatened and endangered plant and animal species is provided in *The Annual Report on the Status of California State listed Threatened and Endangered Animals and Plants*, published by DFG; this report is available online at <http://www.dfg.ca.gov>.

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<sup>44</sup> The plant list was compiled for the following CNDDDB Habitats:

- Aquatic
- Bog and Fen
- Freshwater Marsh
- Klamath/N. Coast Flowing Water
- Meadow and Seep
- Riparian Forest
- Riparian Woodland
- South Coast Flowing Water
- Sac. San Joaquin Flowing Water

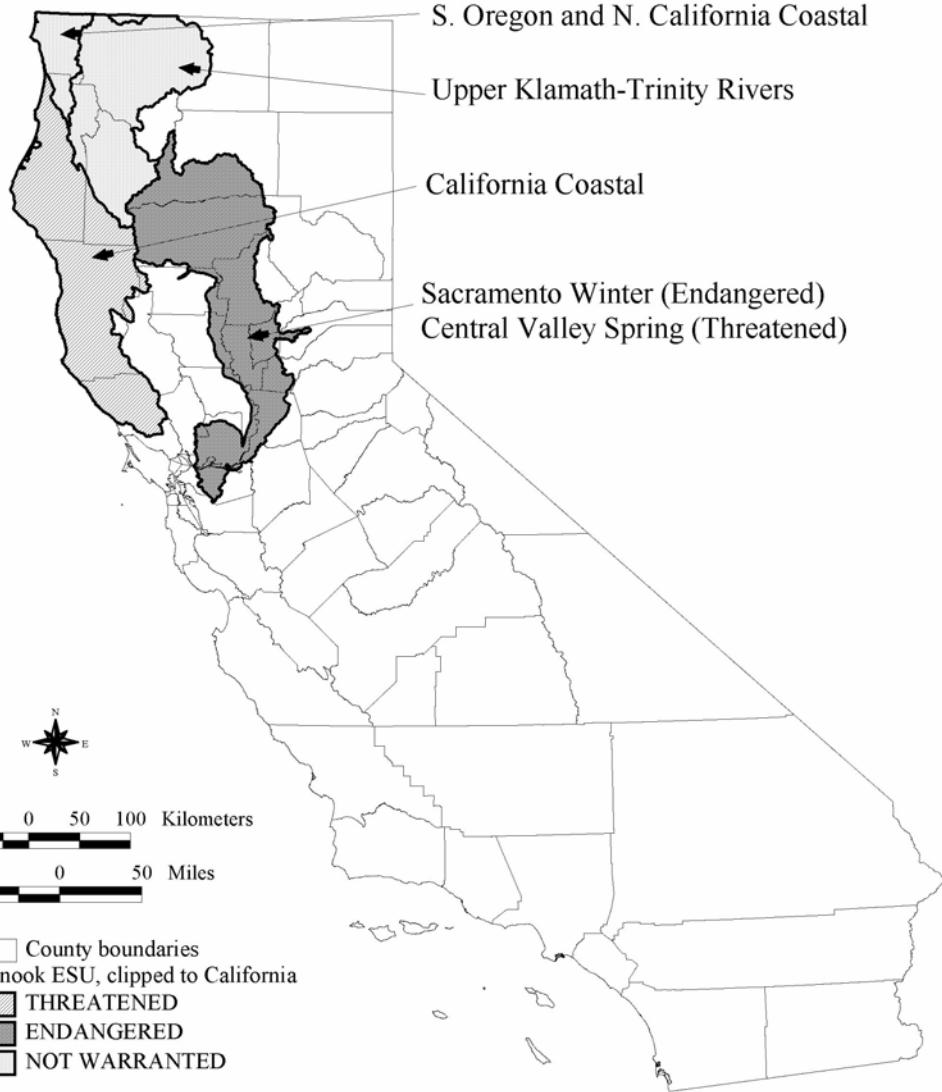
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## CALIFORNIA SALMONID STREAM HABITAT RESTORATION MANUAL

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### Chinook Federal Listing Status Map for California by Evolutionary Significant Unit (ESU).

Please note that the Sacramento Winter ESU (Federal Status: Endangered) also includes the Central Valley Spring ESU, which has a different Federal listing status (Threatened).



ESU data are from the National Marine Fishery Service,  
as distributed by the Bonneville Power Administration, with updates for 2001 listing status.

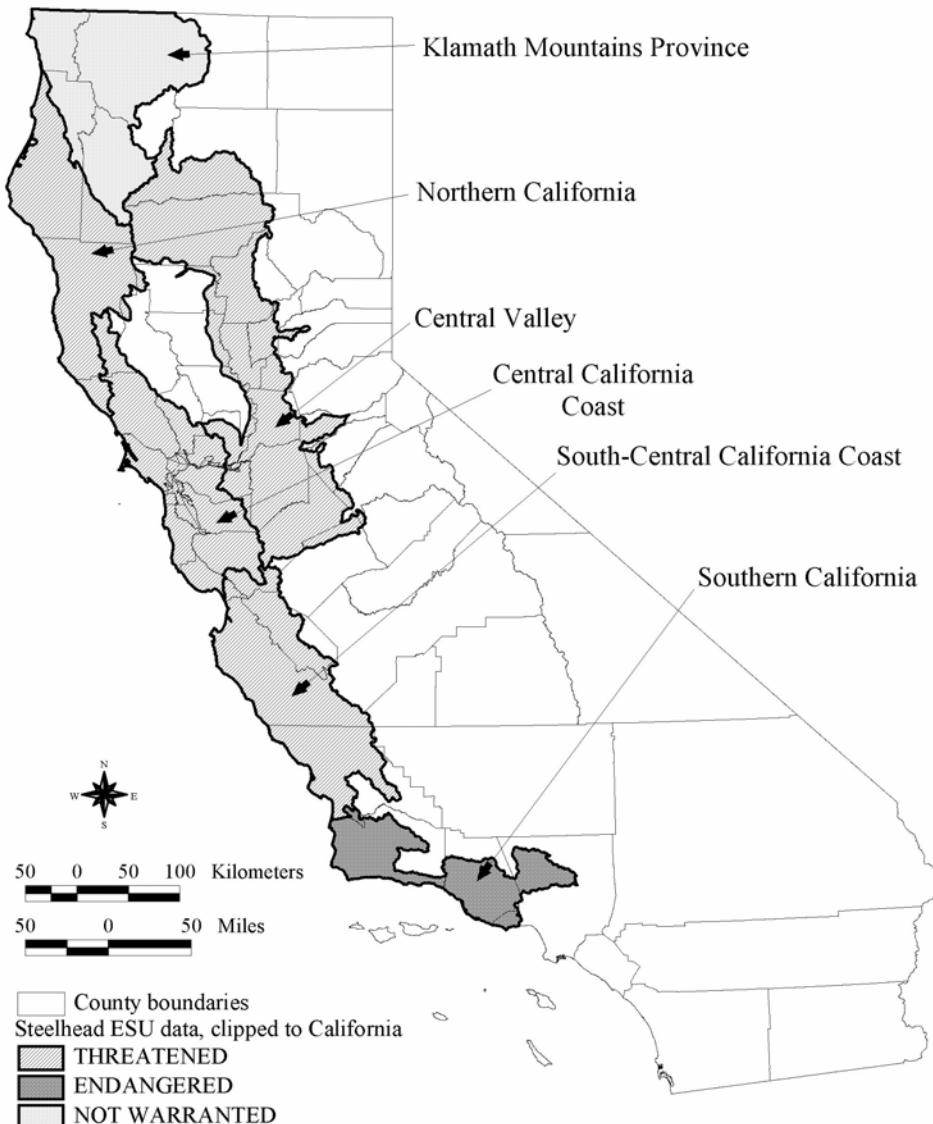
Map by C.Brooks, 12-15-2001  
IHRMP North Coast GIS Lab, Hopland, CA  
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## CALIFORNIA SALMONID STREAM HABITAT RESTORATION MANUAL

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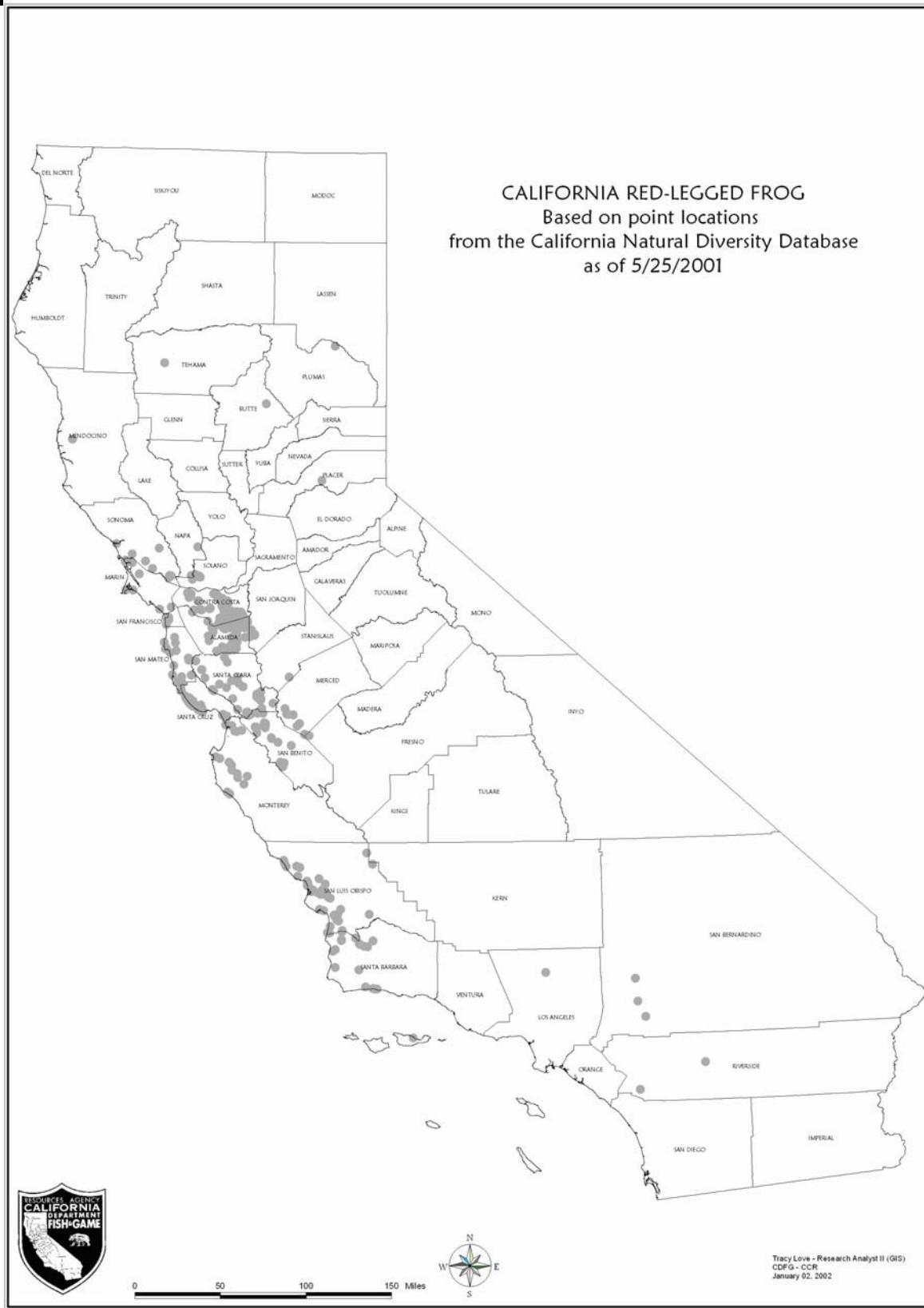
Steelhead Federal Listing Status Map for California  
by Evolutionary Significant Unit (ESU).



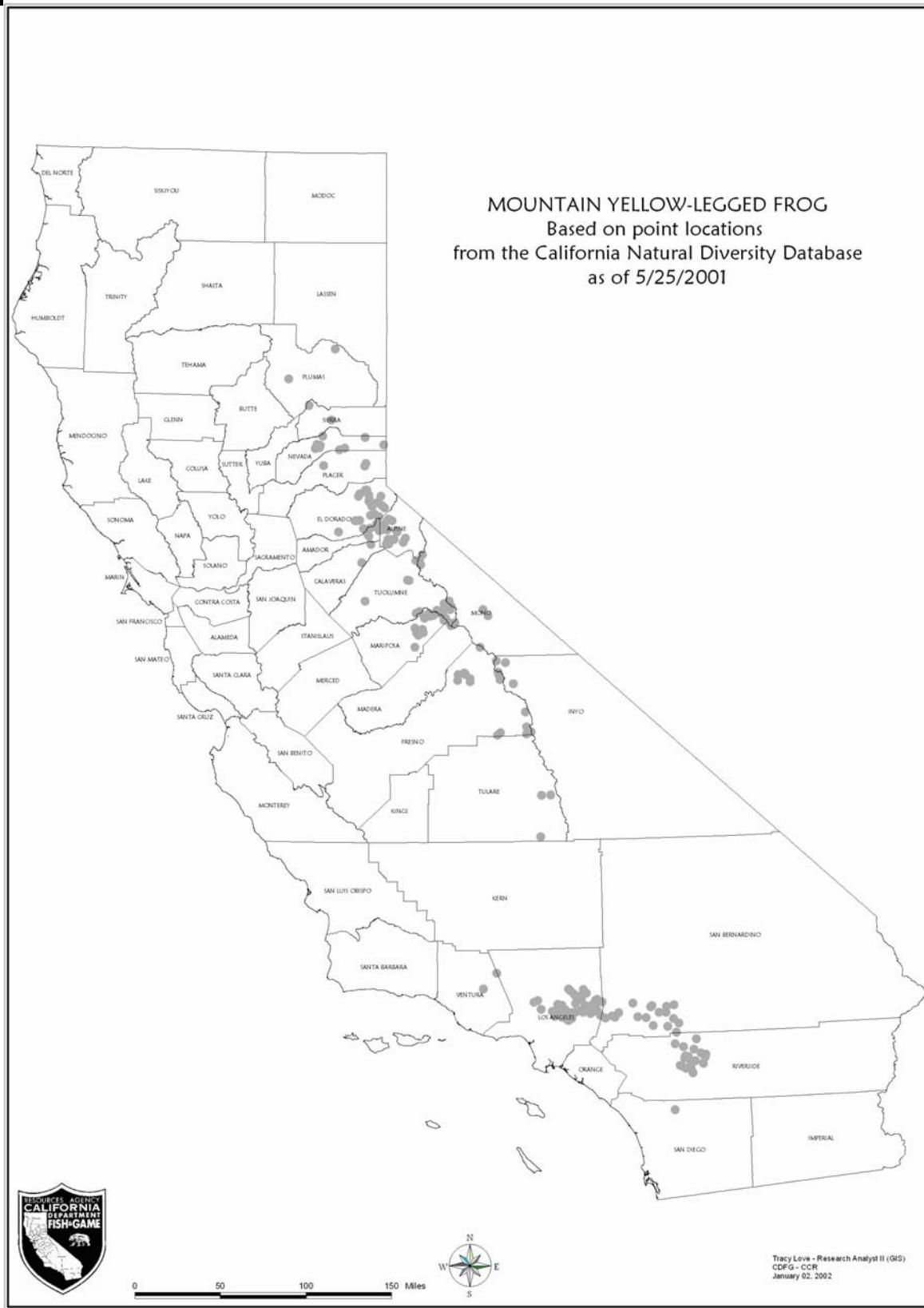
ESU data are from the National Marine Fishery Service,  
as distributed by the Bonneville Power Administration, with updates for 2001 listing status.

Map by C.Brooks, 12-27-2001  
IHRMP North Coast GIS Lab, Hopland, CA  
L:/ibm2/pd/data/nmfs/nmfs-esu-data.apr

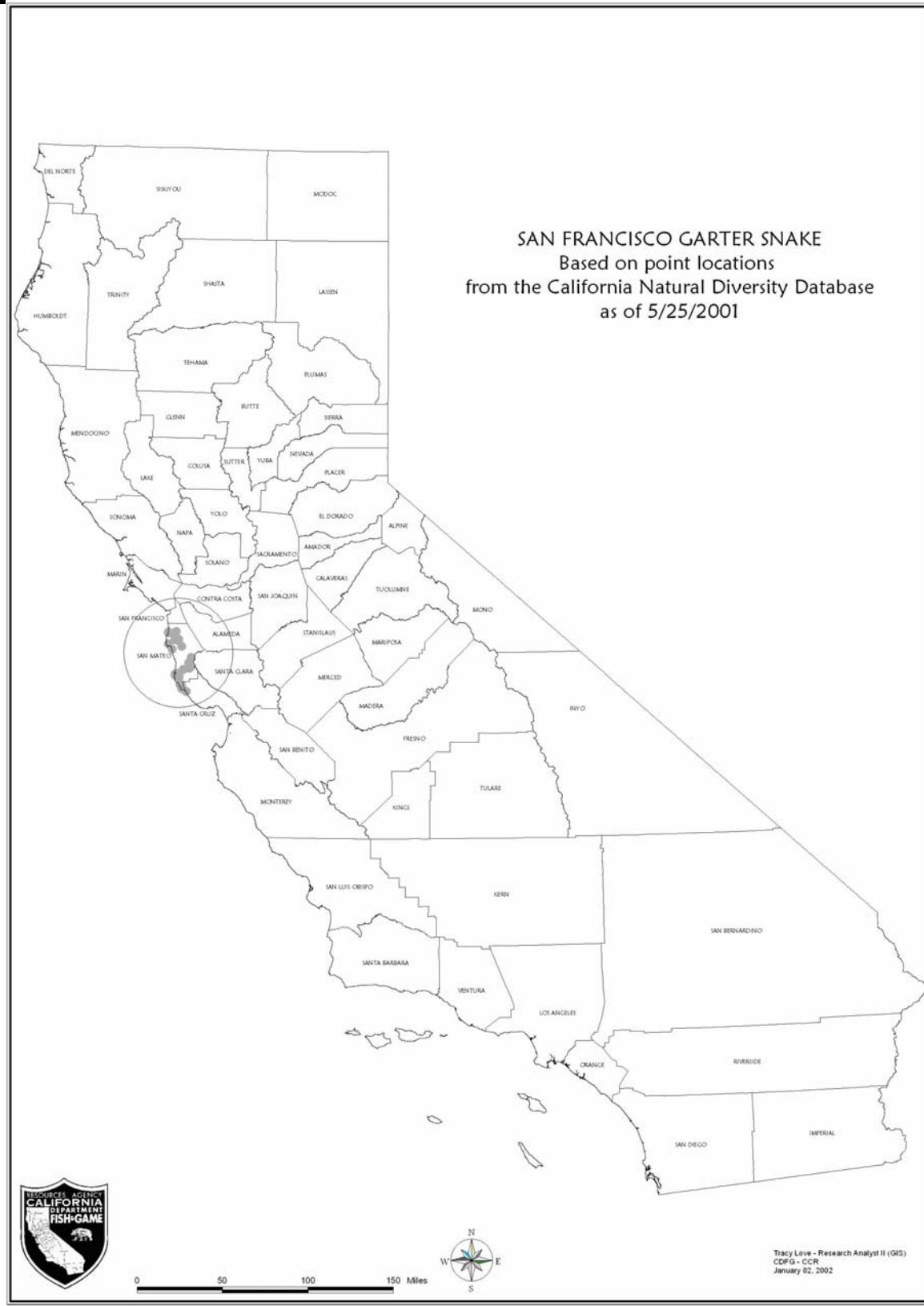
# CALIFORNIA SALMONID STREAM HABITAT RESTORATION MANUAL



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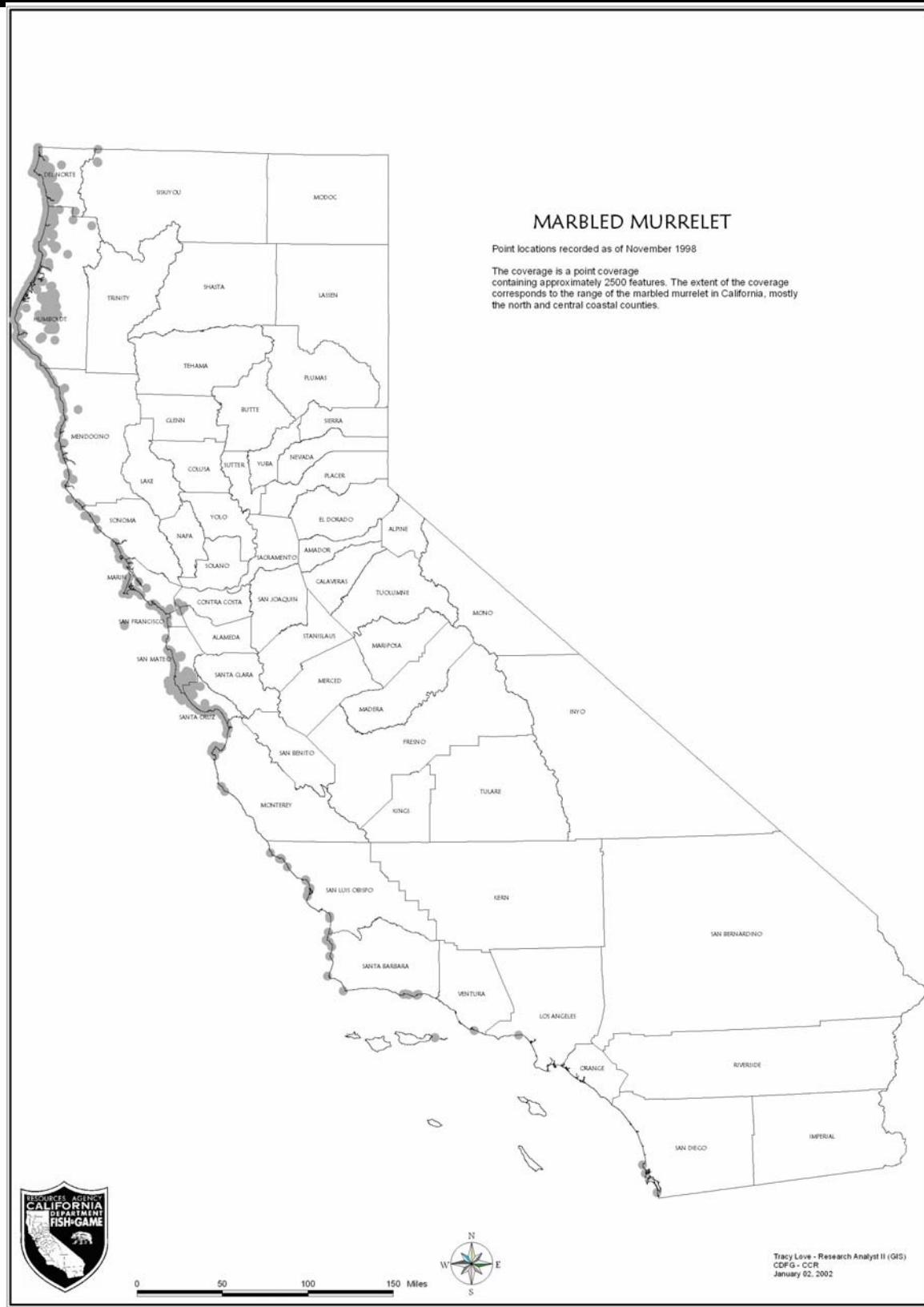
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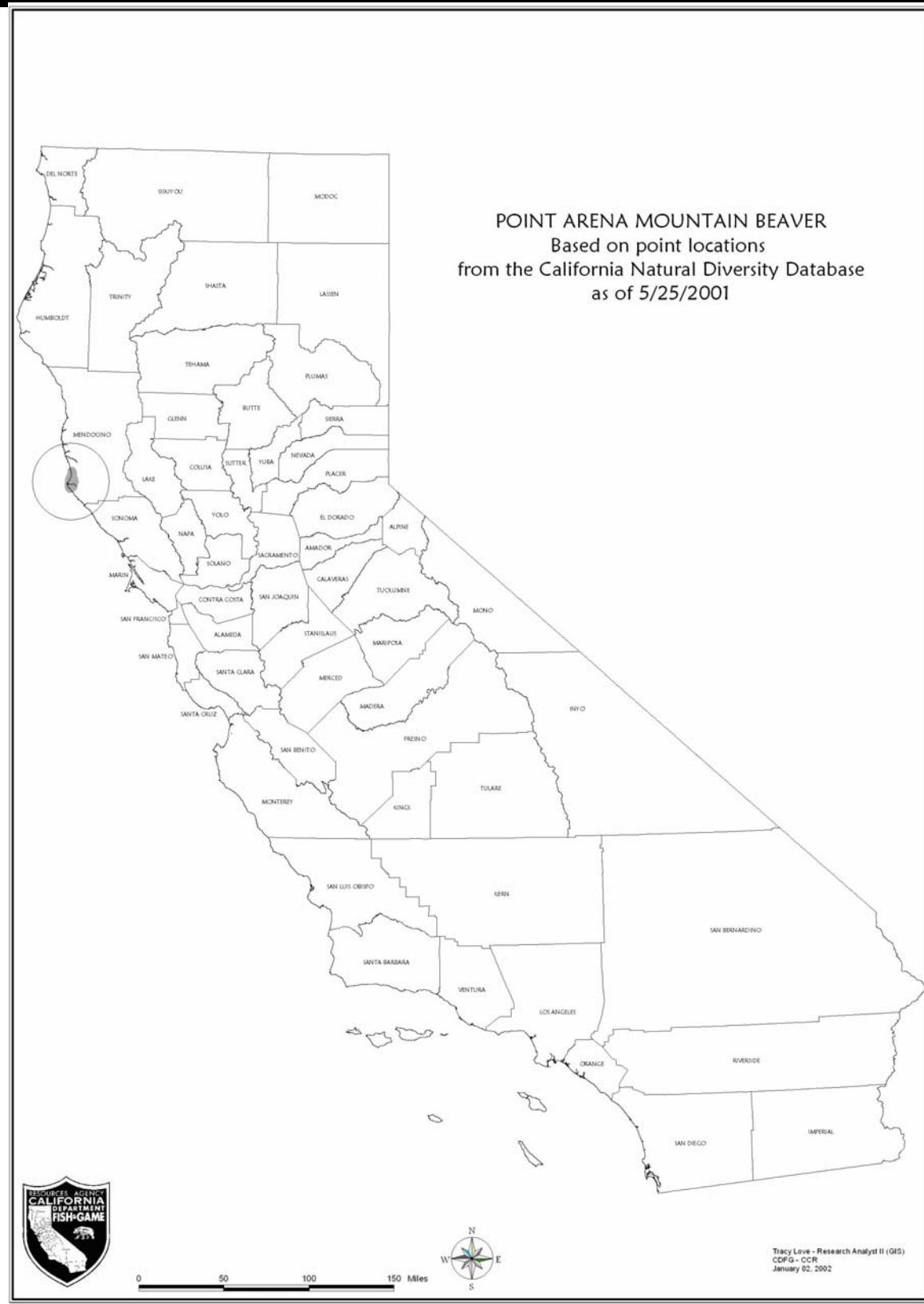
# CALIFORNIA SALMONID STREAM HABITAT RESTORATION MANUAL



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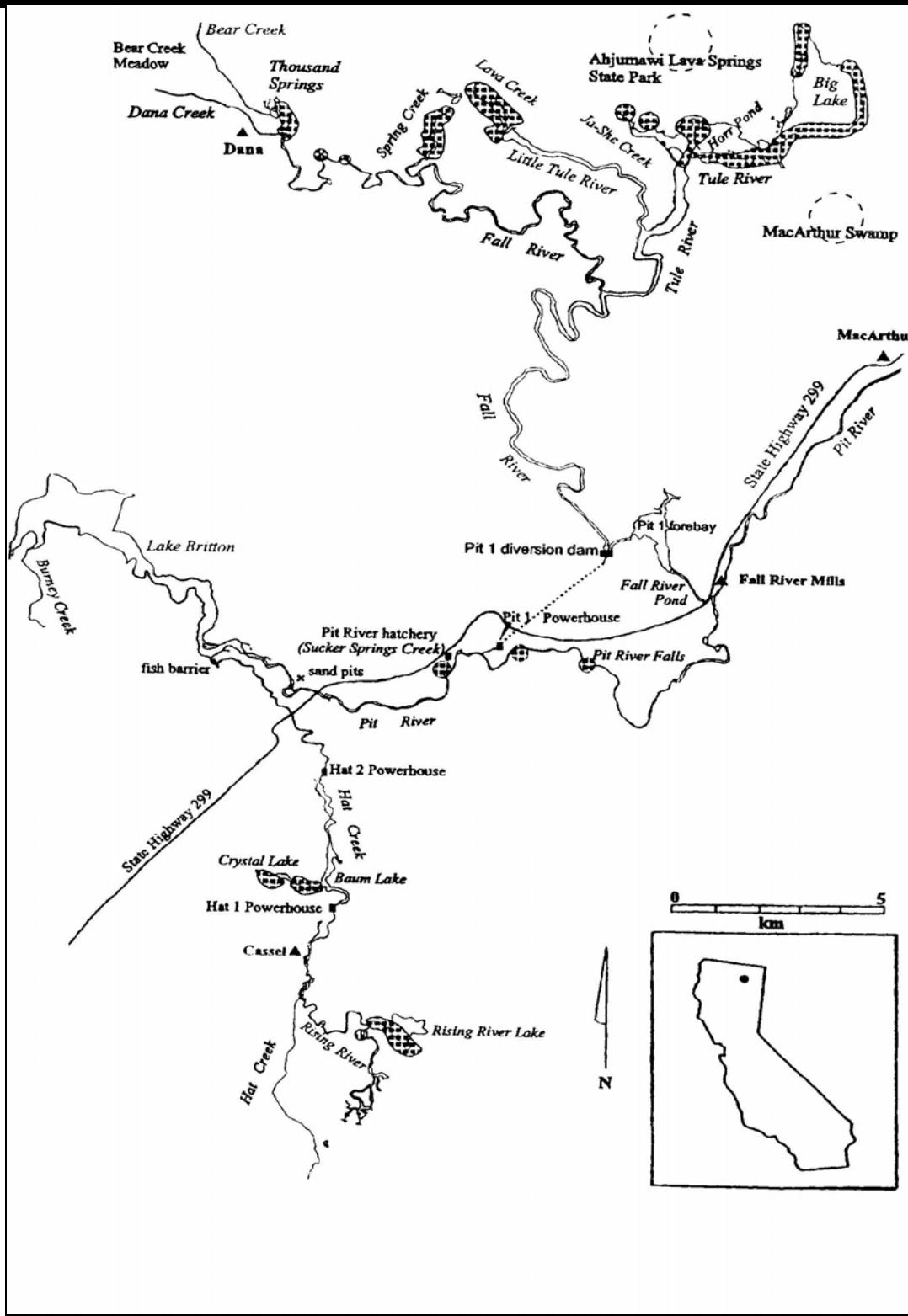
# CALIFORNIA SALMONID STREAM HABITAT RESTORATION MANUAL



## **STATE AND FEDERAL ENDANGERED AND THREATENED SPECIES**

DECEMBER 2002

## CALIFORNIA SALMONID STREAM HABITAT RESTORATION MANUAL



Distribution of all known locations of Shasta crayfish in Shasta County (Source: U.S. Fish and Wildlife Service, Recovery Plan for the Shasta Crayfish (*Pacifastacus fortis*), August 28, 1998).